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DATE: 1/16/15
PAGE: 1

TORONTO MASTERBATCHES (CANADA)
2 LONE OAK COURT
TORONTO ONTARIO M9C 5R9
PHONE: 416-847-7000

FOR ALL EMERGENCIES 269-753-8434
PREPARED BY: PRODUCT SAFETY DEPARTMENT

CLARIANT WEBSITE: [HTTP://WWW.CLARIANTMASTERBATCH.COM](http://www.clariantmasterbatch.com)

PRODUCT DESCRIPTION: ABS 004.000% ROYAL CHERRY #2
PRODUCT CODE: SB34754421

***** MATERIAL SAFETY DATA SHEETS *****

*

THE ATTACHED MATERIAL SAFETY DATA SHEET (MSDS) IS AN IMPORTANT DOCUMENT.
THE OSHA HAZARDOUS COMMUNICATION STANDARD REQUIRES US TO FORWARD A MSDS
PRIOR TO OR ACCOMPANYING AN INITIAL SHIPMENT OF A PRODUCT AND THE
"STANDARD" REQUIRES YOUR COMPANY TO KEEP THE MSDS ON FILE.

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IF YOU ARE NOT RESPONSIBLE FOR HEALTH AND SAFETY IN YOUR COMPANY PLEASE
INSURE THAT YOUR HEALTH AND SAFETY MANAGER RECEIVES THIS DOCUMENT.

*

*

THANK YOU.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS)

HEALTH ----->1

FLAMMABILITY ----->1

REACTIVITY ----->0

PERSONAL PROTECTION -->B

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SECTION I - PRODUCT INFORMATION:

PRODUCT DESCRIPTION:

ABS 004.000% ROYAL CHERRY #2

PRODUCT CODE:

SB34754421

VERSION NUMBER:

2

DATE: 1/16/15

CHEMICAL NAME/FAMILY:

THERMOPLASTICS RESIN(S) + COLORANT

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION:

THE FOLLOWING INFORMATION PROVIDED ON THE BELOW HAZARDOUS PIGMENT(S) AND ADDITIVE(S) APPLIES TO THEM IN THE PURE DRY FORM. THE FORM OF THE PIGMENT AND ADDITIVE PROVIDED TO YOU IS ENCAPSULATED IN PLASTIC, AND THEREFORE, THE LIKELIHOOD OF EXPOSURE IS MUCH LESS, EVEN TO THE POINT OF NEGLIGIBLE. WE THEREFORE CONSIDER THE LEVEL OF HAZARD TO BE NEGLIGIBLE.

CAS NUMBER	DESCRIPTION	OSHA PEL MG/M3	ACGIH TLV MG/M3	OTHER LIMITS	DOES NOT EXCEED(%)
100-42-5	STYRENE	100PPM	-	-	.15
1309-37-1	IRON OXIDE (TOTAL DUST)	15.0	5.0	5.0	18.25
7631-86-9	SILICON DIOXIDE, AMORPHOUS	6.0	10.0	-	.83
7727-43-7	BARIUM SULFATE(DUST)	5.0	10.0	-	1.14
1333-86-4	CARBON BLACK	3.5	3.5	-	.23
36443-68-2	ANTIOXIDANT/STABILIZER	-	-	-	.30

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS:

BOILING POINT: NA
SPECIFIC GRAVITY: 1.05
VAPOR PRESSURE: NA
MELTING POINT: Non Determined
VAPOR DENSITY: NA
EVAPORATION RATE: NA
SOLUBILITY IN WATER: INSOLUBLE
APPEARANCE AND ODOR: COLORED PLASTIC PELLET - NO SIGNIFICANT ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (METHOD USED):

M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/16/15
PAGE: 3

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA: (CONT)

THERE IS A COMPONENT IN THIS PRODUCT WITH A FLASH POINT OF 193 C.
THE METHOD USED TO DETERMINE THIS IS: OPEN CUP
ALL OTHER COMPONENTS USED IN THIS PRODUCT EITHER HAVE A HIGHER FLASH
POINT OR ARE NOT COMBUSTIBLE AND DO NOT HAVE A FLASH POINT.

EXTINGUISHING MEDIA:

CARBON DIOXIDE ON PIGMENT; WATER ON FIRE IN SURROUNDING AREA.

SPECIAL FIRE FIGHTING PROCEDURES:

BURNING WILL PRODUCE TOXIC FUMES. WEAR SELF-CONTAINED BREATHING
APPARATUS AND FULL TURNOUT GEAR TO FIGHT FIRES.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

IT MAY NOT BE OBVIOUS THAT CARBON BLACK IS BURNING UNLESS THE MATERIAL IS
STIRRED AND SPARKS ARE APPARENT. CARBON BLACK THAT HAS BEEN ON FIRE SHOULD
BE OBSERVED CLOSELY FOR AT LEAST 48 HOURS TO ENSURE NO SMOLDERING MATERIAL
IS PRESENT.

SECTION V - REACTIVITY DATA:

STABILITY: STABLE -> X UNSTABLE ->

STABILITY (CONDITIONS TO AVOID):

AVOID EXPOSURE TO HEAT, SPARK, OR OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID):

AVOID CONTACT WITH STRONG ALKALI, AMINES.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

CARBON MONOXIDE, CARBON DIOXIDE, ORGANIC PRODUCTS OF DECOMPOSITION, OXIDES
OR SULFUR (SULFOXIDES) FORM IF HEATED ABOVE DECOMPOSITION TEMPERATURE.

HAZARDOUS POLYMERIZATION: WILL OCCUR -> WILL NOT OCCUR -> X

HAZARDOUS POLYMERIZATION (CONDITIONS TO AVOID):

SMOKING, OPEN FLAMES, SPARKS AND OTHER SOURCES OF IGNITION AND HEAT.

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M A T E R I A L S A F E T Y D A T A S H E E T

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PAGE: 4

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SECTION VI - HEALTH HAZARD DATA:

HEALTH HAZARDS (ACUTE AND CHRONIC):

HEALTH HAZARD: INHALATION

EXCESSIVE EXPOSURE TO AIRBORNE DUST MAY REDUCE VISIBILITY AND/OR CAUSE
UNPLEASANT DEPOSITS IN THE EYES, EARS AND NOSE.

HEALTH HAZARD: SKIN

INJURY TO THE SKIN OR MUCOUS MEMBRANES CAN OCCUR BY DIRECT MECHANICAL
ACTION OR BY RIGOROUS SKIN CLEANING NECESSARY FOR REMOVAL OF DUST

HEALTH HAZARD: INGESTION

INGESTION MAY RESULT IN GASTRIC DISTURBANCES

HEALTH HAZARD: EYE CONTACT

HIGH DUST CONCENTRATIONS MAY CAUSE MECHANICAL IRRITATION TO EYES.

IS ANY CHEMICAL IN THIS PRODUCT AT A CONCENTRATION OF 0.1 % OR MORE
CLASSIFIED AS A CARCINOGEN BY IARC, NTP, OR OSHA? YES

SIGNS AND SYMPTOMS OF EXPOSURE:

* THE FOLLOWING INFORMATION PROVIDED ON THE BELOW HAZARDOUS INGREDIENT(S)
APPLIES TO THE INGREDIENT(S) IN THE PURE DRY FORM. THE FORM OF THE
INGREDIENTS PROVIDED TO YOU IS ENCAPSULATED IN PLASTIC, AND THEREFORE,
THE LIKELIHOOD OF EXPOSURE IS MUCH LESS, EVEN TO THE POINT OF NEGLIGIBLE.
WE THEREFORE CONSIDER THE LEVEL OF HAZARD TO BE NEGLIGIBLE.

STYRENE MONOMER (CAS# 100-42-5): MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT
IRRITATION. INGESTION MAY CAUSE GASTRIC DISTURBANCES.

IRON OXIDE(CAS# 1309-37-1): EXPOSURE TO AIRBORNE DUST MAY REDUCE VISIBILITY
AND MAY CAUSE MECHANICAL IRRITATION TO THE EYES AND RESPIRATORY TRACT.
RIGOROUS SKIN CLEANING NECESSARY FOR REMOVAL OF DUST CAN CAUSE IRRITATION.
PROLONGED INHALATION OF IRON OXIDE FUME HAS BEEN REPORTED TO PRODUCE
CHANGES IN LUNG X-RAYS OF EXPOSED INDIVIDUALS. THIS CONDITION, SIDEROSIS,
IS CONSIDERED TO BE A BENIGN PNEUMOCONIOSIS THAT EXHIBITS NO ADVERSE HEALTH
EFFECTS.

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M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/16/15
PAGE: 5

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SECTION VI - HEALTH HAZARD DATA: (CONT)

SILICON DIOXIDE: PROLONGED INHALTION OF AMORPHOUS SILICA MAY PRODUCE X-RAY
CHANGES IN THE LUNGS WITHOUT DISABILITY.
BARIUM SULFATE: PROLONGED INHALATION OF EXCESSIVE LEVELS OF DUST MAY CAUSE
PNEUMOCONIOSIS.

CARBON BLACK: TEMPORARY DISCOMFORT TO UPPER RESPIRATORY TRACT. IARC HAS
CLASSIFIED CARBON BLACK AS POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B).

ANTIOXIDANT: LIVER AND THYROID DAMAGE BASED UPON THE PREVIOUSLEY CITED
FEEDING STUDIES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

* THE FOLLOWING INFORMATION PROVIDED ON THE BELOW HAZARDOUS INGREDIENT(S)
APPLIES TO THE INGREDIENT(S) IN THE PURE DRY FORM. THE FORM OF THE
INGREDIENT(S) PROVIDED TO YOU IS ENCAPSULATED IN PLASTIC, AND THEREFORE,
THE LIKELIHOOD OF EXPOSURE IS MUCH LESS, EVEN TO THE POINT OF NEGLIGIBLE.
WE THEREFORE CONSIDER THE LEVEL OF HAZARD TO BE NEGLIGIBLE.

STYRENE MONOMER (CAS# 100-42-5): NONE NOTED

IRON OXIDE NONE KNOWN

IRON OXIDE - NONE KNOWN

CARBON BLACK: UPPER RESPIRATORY DISORDERS, SUCH AS BRONCHITIS OR ASTHMA.

ANTIOXIDANT: LIVER DISEASE AND JAUDICE: THYROID CONDITIONS

EMERGENCY FIRST AID: INHALATION

REMOVE FROM AREA TO FRESH AIR. GET MEDICAL ATTENTION IF RESPIRATORY
IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

EMERGENCY FIRST AID: SKIN

WASH WITH SOAP AND WATER, IF IRRITATION OCCURS CONSULT PHYSICIAN. REMOVE
AND LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

EMERGENCY FIRST AID: INGESTION

IF SWALLOWED, ADMINISTER AT LEAST 3-4 GLASSES OF WATER BUT DO NOT INDUCE

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M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/16/15
PAGE: 6

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SECTION VI - HEALTH HAZARD DATA: (CONT)

VOMITING OR GIVE WATER TO UNCONSCIOUS OR CONVULSING PERSON. SEEK MEDICAL ATTENTION.

EMERGENCY FIRST AID: EYE CONTACT
RINSE EYES THOROUGHLY WITH PLENTY OF WATER KEEPING EYELID OPEN. IF SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE:

HANDLING: SPILLAGE

PRODUCT IS CONSIDERED A HAZARDOUS MATERIAL. WEARING PROTECTIVE EQUIPMENT, CONTAIN SPILLAGE AND SCOOP UP OR VACUUM. AVOID DUSTING. NOTIFICATION OF THE NATIONAL RESPONSE CENTER (800-424-8802) MAY BE REQUIRED. REFER TO EPA, DOT, AND APPLICABLE STATE AND LOCAL REGULATIONS FOR CURRENT RESPONSE INFORMATION.

HANDLING: WASTE DISPOSAL

DISPOSE OF IN AN APPROVED HAZARDOUS WASTE LANDFILL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

HANDLING: STORAGE

AVOID DUST EXPOSURES ABOVE THE OCCUPATIONAL EXPOSURE LIMIT. AVOID CONTACT WITH SKIN AND EYES. WASH EXPOSED SKIN DAILY. STORE IN DRY PLACE AWAY FROM IGNITION SOURCES AND STRONG OXIDIZERS.

HANDLING: OTHER PRECAUTIONS

AGGRESSIVE MEASURES SHOULD BE TAKEN TO AVOID DUST ACCUMULATION; EMPLOY BONDING, GROUNDING, VENTING, AND EXPLOSION RELIEF PROVISIONS IN ACCORDANCE WITH ACCEPTED ENGINEERING PROCEDURES.

SECTION VIII - CONTROL MEASURES:

CONTROL: RESPIRATORY PROTECTION

USE NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPORS

CONTROL: VENTILATION

PROVIDE AN ADEQUATE EXHAUST SYSTEM THAT IS FILTERED TO AVOID CONTAMINATING

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M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/16/15
PAGE: 7

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SECTION VIII - CONTROL MEASURES: (CONT)

THE ENVIRONMENT AND MEETS THE TLV REQUIREMENTS IN THE WORK AREA.

CONTROL: GLOVES

BUTYL RUBBER,PVC OR NEOPRENE

CONTROL: EYE PROTECTION

GOGGLES

CONTROL: OTHER CLOTHING

IMPERVIOUS CLOTHING SHOULD BE WORN WHEN GROSS CONTACT IS LIKELY, SUCH AS
WHEN CLEANING UP SPILLS OF LARGE AMOUNTS.

CONTROL: WORK/HYGIENE

DO NOT EAT, DRINK, OR SMOKE IN WORK AREA.

SECTION IX - OTHER REGULATORY INFORMATION:

SARA - THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL(S) SUBJECT TO THE
REPORTING OF SECTION 313 OF TITLE III OF THE SUPERFUND
AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:
THIS INFORMATION SHOULD BE INCLUDED IN ALL MSDS'S THAT ARE COPIED
AND DISTRIBUTED FOR THIS MATERIAL.

CAS #	DOES NOT EXCEED(%)	DESCRIPTION
100-42-5	.15	STYRENE

TSCA - ALL INGREDIENTS USED TO PRODUCE THE ABOVE FORMULATION ARE IN
COMPLIANCE WITH THE TOXIC SUBSTANCES AND CONTROL ACT INVENTORY
AS REQUIRED BY FEDERAL LAW.

SECTION X - STATE REGULATORY INFORMATION:

CA PROPOSITION 65: WARNING - ANY COMPONENT OF THIS PRODUCT WHICH CONTAINS
MATERIALS KNOWN TO THE STATE OF CALIFORNIA TO
CAUSE CANCER ARE LISTED BELOW:

PLEASE NOTE IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ITS
FINISHED PRODUCTS REQUIRE LABELING UNDER CALIFORNIA PROPOSITION 65.

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M A T E R I A L S A F E T Y D A T A S H E E T

DATE: 1/16/15
PAGE: 8

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SECTION X - STATE REGULATORY INFORMATION: (CONT)

HTTP://WWW.OEHHA.CA.GOV/PROP65/PROP65_LIST/NEWLIST.HTML
STYRENE, ACRYLONITRILE
CARBON BLACK: (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE)" IS A
CALIFORNIA PROPOSITION 65 LISTED SUBSTANCE. PLEASE NOTE
THAT ALL THREE LISTING QUALIFIERS (AIRBORNE, UNBOUND (NOT BOUND WITHIN A
MATRIX), AND RESPIRABLE SIZE (10 MICROMETERS OR LESS
IN DIAMETER)) MUST BE MET FOR THIS SUBSTANCE TO BE CONSIDERED A PROPOSITION
65 SUBSTANCE.

CA PROPOSITION 65: WARNING - ANY COMPONENT OF THIS PRODUCT WHICH CONTAINS
MATERIALS KNOWN TO THE STATE OF CALIFORNIA TO
CAUSE DEVELOPMENTAL AND REPRODUCTIVE TOXICANT
HARM ARE LISTED BELOW:

PLEASE NOTE IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ITS
FINISHED PRODUCTS REQUIRE LABELING UNDER CALIFORNIA PROPOSITION 65.
HTTP://WWW.OEHHA.CA.GOV/PROP65/PROP65_LIST/NEWLIST.HTML
NONE

CANADIAN WHMIS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL
AS GIVEN IN WHMIS IS SHOWN BELOW:

HTTP://WWW.CSST.QC.CA/EN/PREVENTION/REPTOX/PAGES/LIST-WHMIS-CAS-50-84.ASPX
CARBON BLACK - D2A VERY TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS

FLORIDA: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL
CHEMICAL AS LISTED IN THE FLORIDA IS SHOWN BELOW:
NONE

MASSACHUSETTS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL
CHEMICAL AS LISTED IN THE MASSACHUSETTS SUBSTANCE LIST IS
SHOWN BELOW:

IRON OXIDE CAS# 1309-37-1	60 TO 100%
SILICON DIOXIDE CAS# 7631-86-9	1 TO 5%
ARSENIC CAS# 7440-38-2	50 PPM
NICKEL CAS# 7440-02-0	250 PPM
BARIUM SULFATE CAS# 7727-43-7	3 TO 7%
CHROMIUM CAS# 7440-47-3	900 PPM
IRON OXIDE CAS# 1309-37-1	<100%
SILICON DIOXIDE CAS# 7631-86-9	<1.0%
ARSENIC CAS# 7440-38-2	< 50 PPM

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DATE: 1/16/15
PAGE: 9

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SECTION X - STATE REGULATORY INFORMATION: (CONT)

NICKEL CAS# 7440-02-0 < 250 PPM

NEW JERSEY: NON-HAZARDOUS INGREDIENTS ARE BEING WITH HELD AS TRADE SECRET
INFORMATION. ANY COMPONENT OF THIS PRODUCT WHICH IS A
HAZARDOUS CHEMICAL AS LISTED ON THE NEW JERSEY HAZARDOUS LIST
IS GIVEN IN SECTION II OF THIS MSDS. ANY LISTED CHEMICALS NOT
SHOWN IN SECTION II ARE AS FOLLOWS:

IRON OXIDE CAS# 1309-37-1 60 TO 100%
SILICON DIOXIDE CAS# 7631-86-9 1 TO 5 %
BARIUM SULFATE CAS# 7727-43-7 3 TO 7%
IRON OXIDE CAS# 1309-37-1 <100%
SILICON DIOXIDE CAS# 7631-86-9 <1.0%
OCTADECANAMIDE, N,N'-1,2-ETHANEDDIYLBIS- CAS# 000110-30-5
HEXADECANAMIDE, N,N'-1,2-ETHANEDDIYLBIS- CAS# 005518-18-3

PENNSYLVANIA: NON-HAZARDOUS INGREDIENTS ARE BEING WITH HELD AS TRADE SECRET
INFORMATION. ANY COMPONENT OF THIS PRODUCT WHICH IS A
HAZARDOUS CHEMICAL AS LISTED ON THE PENNSYLVANIA HAZARDOUS
LIST IS GIVEN IN SECTION II OF THIS MSDS. ANY LISTED
CHEMICALS NOT SHOWN IN SECTION II ARE AS FOLLOWS:

IRON OXIDE CAS# 1309-37-1 60 TO 100%
SILICON DIOXIDE CAS# 7631-86-9 1 TO 5 %
BARIUM SULFATE CAS# 7727-43-7 3 TO 7%
IRON OXIDE CAS# 1309-37-1 <100%
SILICON DIOXIDE CAS# 7631-86-9 <1.0%

RHODE ISLAND: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL
CHEMICAL AS LISTED IN THE RHODE ISLAND SUBSTANCE LIST IS
SHOWN IN SECTION II OF THIS MSDS. ANY LISTED CHEMICALS NOT
SHOWN IN SECTION II ARE AS FOLLOWS:

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IT IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED. CLARIANT
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UPON, THESE DATA FOR HAZARDS WHICH MIGHT BE ASSOCIATED WITH THE USE OF THIS
MATERIAL OR FOR THE RESULTS OBTAINED. IT IS THE RESPONSIBILITY OF THE USER
TO COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS.